

Rosuvastatin Sodium

Chemical Properties

CAS No. : 147098-18-8

Formula: C₂₂H₂₇FN₃NaO₆S

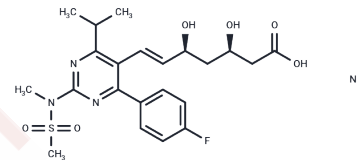
Molecular Weight: 503.52

Storage:

Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Rosuvastatin Sodium (ZD4522 Sodium) is a selective and competitive HMG-CoA reductase (HMGCR) inhibitor (IC ₅₀ =11 nM) with lipid-lowering and anti-atherosclerotic effects.
Targets(IC ₅₀)	HMG-CoA Reductase, Potassium Channel
In vivo	Rosuvastatin Sodium (10 mg/kg, intraperitoneal injection) prolonged the QTc interval from 201±1 ms to 210±2 ms in conscious unrestrained guinea pigs [2]. Rosuvastatin Sodium (20 mg/kg/day, administered continuously for 2 weeks) significantly reduced very low-density lipoprotein (VLDL) levels in streptozotocin-induced diabetes mellitus rats [4].

Solubility Information

Solubility	DMSO: 200 mg/mL (397.2 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.986 mL	9.9301 mL	19.8602 mL
5 mM	0.3972 mL	1.986 mL	3.972 mL
10 mM	0.1986 mL	0.993 mL	1.986 mL
50 mM	0.0397 mL	0.1986 mL	0.3972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Watanabe, M., et al., Synthesis and biological activity of methanesulfonamide pyrimidine- and N-methanesulfonyl pyrrole-substituted 3,5-dihydroxy-6-heptenoates, a novel series of HMG-CoA reductase inhibitors. *Bioorg Med Chem*, 1997. 5(2): p. 437-44.

Plante I, et al. Rosuvastatin blocks hERG current and prolongs cardiac repolarization. *J Pharm Sci*. 2012 Feb;101(2): 868-78.

Feng PF, et al. Intracellular Mechanism of Rosuvastatin-Induced Decrease in Mature hERG Protein Expression on Membrane. *Mol Pharm*. 2019 Apr 1;16(4):1477-1488.

Carswell C.I., et al. Rosuvastatin. *Drugs*, 2002. 62(14): p. 2075-85; discussion 2086-7.

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